

ZOTAC

ZBOX

USER'S MANUAL

MAGNUS EN275060TC/EN255050EC/EN275060T8

E SERIES

ZOTAC ZBOX

User's Manual



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Every effort has been made to ensure that the contents of this manual are correct and up to date. However, the manufacturer makes no guarantee regarding the accuracy of its contents, and reserves the right to make changes without prior notice.

CAUTION:

Risk of explosion if the battery is replaced with an incorrect type. Batteries should be recycled where possible. Disposal of used batteries must be in accordance with local environmental regulations.

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Product Specifications

❑ **Microprocessor support**

- ❖ Intel Core Ultra 7 255HX, 20-core 2.4 GHz (up to 5.2 GHz) for ZBOX EN275060TC and ZBOX EN275060T8
- ❖ Intel Core Ultra 5 235HX, 14-core 2.9 GHz (up to 5.1 GHz) for ZBOX EN255050EC

❑ **Chipset**

- ❖ Intel HM870 chipset

❑ **Onboard Graphics support**

- ❖ NVIDIA GeForce RTX 5060 Ti w/ 16GB GDDR7, 128bit for ZBOX EN275060TC
- ❖ NVIDIA GeForce RTX 5060 Ti w/ 8GB GDDR7, 128bit for ZBOX EN275060T8
- ❖ NVIDIA GeForce RTX 5050 w/ 8GB GDDR6, 128bit for ZBOX EN255050EC
- ❖ 1x HDMI 2.1, 3 x DP 2.1

❑ **Operating systems:**

- ❖ Windows 11 Ready

❑ **System Memory support**

- ❖ 2 x DDR5-6400 CSODIMM/ DDR5-5600 SODIMM slot
- ❖ Up to 96 GB of memory

❑ **USB Ports**

- ❖ 5 x USB 3.2 10Gbps (1 front)
- ❖ 2 x Thunderbolt 4 (front)

❑ **Expansion slot**

- ❖ 1 M.2 NVMe PCIe 5.0 x4 SSD slot (22/80)
- ❖ 1 M.2 NVMe PCIe 4.0 x4 / SATA SSD slot (22/80)

❑ **Onboard Dual LAN**

- ❖ 2 x 2.5Gbps Ethernet (10/100/1000/2500Mbps)

❑ **WiFi /Bluetooth support**

- ❖ Intel WiFi 7 (802.11be)
- ❖ BT 5.4

❑ **Power**

- ❖ 20V/330W AC-DC Power adapter

❑ **Dimensions**

- ❖ 210mm x 203mm x 62.2mm

Safety information

Your ZOTAC ZBOX is designed and tested to meet the latest standards of safety for information technology equipment. However, to ensure your safety, it is important that you read the following safety instructions.

Setting up your system

- ❖ Read and follow all instructions in the documentation before operating your system.
- ❖ Do not use this product near water or a heat source such as a radiator.
- ❖ Set up the system on a stable surface with the provided stand. Never use the system alone without the stand.
- ❖ Openings on the chassis are for ventilation. Do not block or cover these openings. Make sure you leave plenty of space around the system for ventilation. Never insert objects of any kind into the ventilation openings.
- ❖ Use this product in environments with ambient temperatures between 0°C and 35°C.

Care during use

- ❖ Do not walk on the power cord or allow anything to rest on it.
- ❖ Do not spill water or any other liquids on your system.
- ❖ When the system is turned off, a small amount of electrical current still flows. Always unplug all power, modem, and network cables from the power outlets before cleaning the system.
- ❖ If you encounter the following technical problems with the product, unplug the power cord and contact a qualified service technician or your retailer.
 - The power cord or plug is damaged.
 - Liquid has been spilled into the system.
 - The system does not function properly even if you follow the operating instructions.
 - The system was dropped or the cabinet is damaged.
 - The system performance changes.

Welcome

Congratulations on your purchase of the ZOTAC ZBOX. The following illustration displays the package contents of your new ZOTAC ZBOX. If any of the below items are damaged or missed, contact your retailer.

Package contents

- 1 x ZOTAC ZBOX
- 1 x AC Adapter
- 1 x Power Cord
- 2 x Mounting Bracket
- 2 x Antenna
- 1 x USB flash drive with OS drivers
- 1 x Quick Start Guide



Getting to know your ZOTAC ZBOX

Front view



Refer to the diagram below to identify the components on this side of the system.

1. Power LED

The Power LED is always ON when power is on.

2. WiFi LED

The WiFi LED is always ON when WiFi was active.

3. SSD LED

The SSD LED blinks when data is being written into or read from the SSD.

4. Thunderbolt 4 ports

The Thunderbolt 4 port is compatible with USB Type-C devices and provides a transfer rate of up to 40 Gbit/s for Thunderbolt 4 devices, but does not support display output.

5. USB 3.2 port

The USB 3.2 port supports the SuperSpeed USB 3.2 devices and is backwards compatible with USB 3.1/3.0/2.0/1.1 devices. Use this port for USB 3.2 devices for maximum performance with USB 3.2 compatible devices.

6. Combo Headphone/Microphone jack (3.5mm)

The combo headphone/microphone jack (3.5mm) is used to connect the system's audio out signal to amplified speakers, 3-pole headphones or 4-pole CTIA headphones.

7. Power switch

The power switch allows powering ON and OFF the system.

Rear view



Refer to the diagram below to identify the components on this side of the system.

1. DisplayPorts

DisplayPort supports both external (box-to-box) and internal (laptop LCD panel) display connections.

2. HDMI port

The HDMI (High Definition Multimedia Interface) port supports a UHD device such as an LCD TV or monitor to allow viewing on a larger external display.

3. WiFi antenna connectors

The WiFi antenna connector supports WiFi antenna module.

4. USB 3.2 ports

The USB 3.2 port supports the SuperSpeed USB 3.2 devices and is backwards compatible with USB 3.1/3.0/2.0/1.1 devices. Use this port for USB 3.2 devices for maximum performance with USB 3.2 compatible devices.

5. Ethernet ports

The eight-pin RJ-45 LAN port supports standard Ethernet cable for connections to local area networks (LAN) with speeds of 10/100/1000/2500Mbps.

6. Power input (DC20V)

The supplied power adapter converts AC power to DC power for use with this jack. Power supplied through this jack supplies power to the PC. To prevent damage to the PC, always use the supplied power adapter.

⚠ The power adapter may become warm to hot when in use. Do not cover the adapter and keep it away from your body.

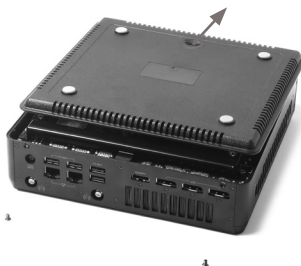
Installing Hardware inside ZOTAC ZBOX

Before installing hardware, please follow the instructions below to remove the cover of your ZOTAC ZBOX.

1. Remove the two rear Philips Head (+) Screws.



2. Gently remove the cover as shown below.



Installing a memory module

1. Locate the SO-DIMM memory slots and insert a SO-DIMM memory module into the slot at a 45 degree angle.



2. Gently press down on the memory module until it locks into place by the arms of the memory slot.



Note:

1. This ZOTAC ZBOX accommodates two DDR5 SO-DIMM memory modules. You must install at least one module for the system to function.
2. 16GB DDR5 memory is pre-installed in Windows version.

Removing the memory module

1. Locate the SO-DIMM memory slot and gently press the two arms securing the memory module outwards, as shown in the image below, to release the memory module.



2. Remove the memory module from the slot at a 45-degree angle.



Installing M.2 SSD module

1. Locate the M.2 SSD slot and remove the screw.



2. Insert an M.2 SSD module into the slot at a 45 degree angle.



3. Attach the screw to the M.2 SSD module as shown below.



Setting up your ZOTAC ZBOX

You need to connect peripherals before using your ZOTAC ZBOX.



1. Connecting to DisplayPort displays

Connect the DisplayPort connectors to the DP port of the monitor or display.

2. Connecting to HDMI displays

Connect one end of an HDMI cable to the HDMI port on the system rear panel and the other end to a HDMI-compatible display such as an HDTV or monitor.

3. Connecting a WiFi antenna module

Connect a BT/WiFi antenna module to the BT/WiFi antenna connector.

4. Connecting to USB 3.2 devices

Connect USB 3.2 devices such as external hard drives, SSDs and flash drives to the USB 3.2 port on the system rear panel.

5. Connecting to a network device

Connect one end of a network cable to the LAN port on the system rear panel and the other end to a network hub, switch or router.

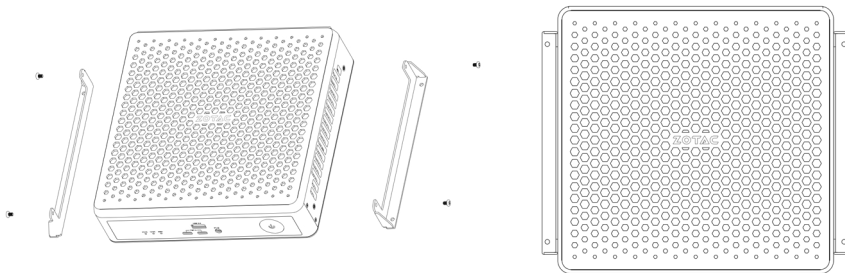
6. Turning on the system

Connect the supplied AC adapter to the DC IN jack on the system rear panel and then press the power switch on the front panel to turn on the system.

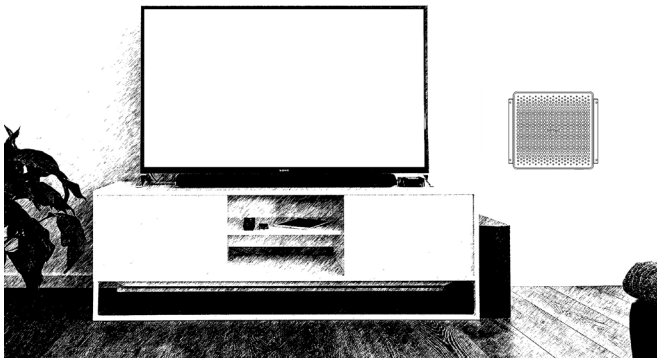
☞ When your ZOTAC ZBOX is not in use, unplug the power adapter or switch off the AC outlet to save on power consumption.

Mounting your ZOTAC ZBOX to the wall

1. Secure the mounting brackets to the ZBOX using four screws.
Disclaimer: ZOTAC cannot be held liable for damages resulting from an improper installation.



2. Secure the ZBOX to the wall with four screws (not included).



Installing drivers and software

Installing an operating system

The ZOTAC ZBOX does not ship with an operating system preinstalled. The user must install the operating system before the ZOTAC ZBOX can be used. The following operating systems are supported:

- Windows 11 Ready

Follow the instructions below to install an operating system:

1. Attach external USB flash drive via USB 3.2 ports.
2. Wait for the ZOTAC ZBOX to boot from the drive.
3. Follow the onscreen directions to install the operating system.
4. Install system drivers to gain full functionality of the ZOTAC ZBOX hardware and features.

Installing system drivers

Before you can use the full features of the ZOTAC ZBOX, the system drivers must be installed. The following types of operating systems are supported by the ZOTAC ZBOX USB flash drive:

- Windows 11 Ready

Follow the instructions below to install the system drivers:

1. Insert the ZOTAC ZBOX USB flash drive.

If autorun is enabled, the driver installation main menu will show up automatically. If autorun is disabled, you may click the file Launch.EXE to bring up the driver installation main menu.

2. The following drivers are available on the USB flash drive:

- Intel Chipset Driver
- Intel Graphics Driver
- NVIDIA Graphics Driver
- Intel HID Driver
- Wireless Network Driver
- Bluetooth Driver



- Intel Management Engine
- Intel SerialIO Driver
- Intel Ethernet PCI-E Driver
- Intel Dynamic Tuning Technology (DTT) Driver
- Intel Thunderbolt (TBT) Driver
- Intel Innovation Platform Framework (IPF) Driver

☞ Each driver must be installed individually to ensure proper operation of the ZOTAC ZBOX.

3. Select the driver you want to install. The driver installer should launch.
4. Follow the onscreen instructions to install the drivers.
5. Restart the system.



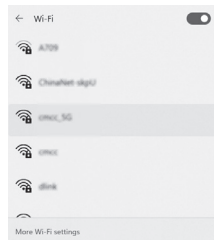
Using your ZOTAC ZBOX

Configuring a wireless connection

Please follow the instructions below to connect to a wireless network:

1. Click the icon  on the right of wireless network icon .
2. Select the wireless network you want to connect to from the list.

Note 1: For security concerns, Do NOT connect to an unsecured network, otherwise, the transmitted information without encryption might be visible to others.

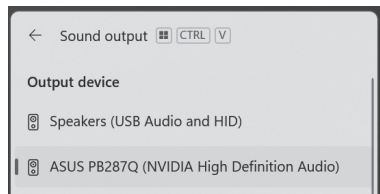
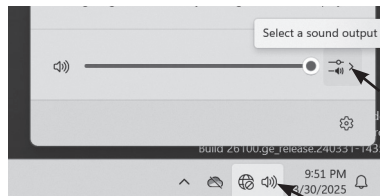


Configuring audio output

Follow the steps below to enable audio output when connecting the ZOTAC ZBOX to a TV or receiver via DP/HDMI adapter.

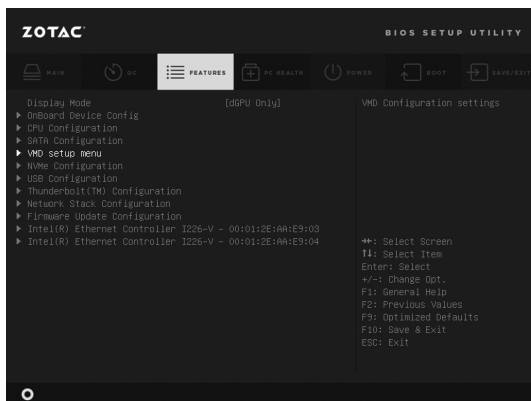
1. Click the audio icon  in the notification area.
2. Click the icon  to manage audio devices.
3. Under Volume devices, click the display device that corresponds with your audio compatible display.

Note 2: Enter the network security key if necessary.



Creating a RAID set

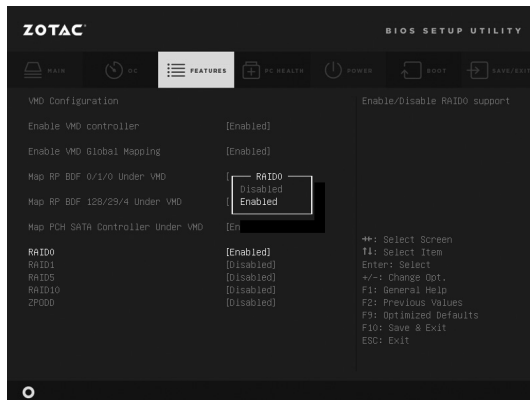
1. Setting your computer, then press <Delete> to enter BIOS SETUP UTILITY.
2. Use the arrow key to select FEATURES menu, and select the item *VMD setup menu*.

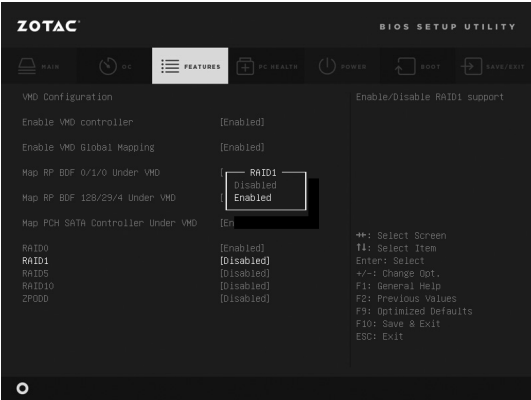


3. Change the item *Enable VMD controller* to *Enabled*.



4. Change the item *RAID0* and *RAID1* to *Enabled*.





5. Press F10 to save the configuration and exit.



6. Use the arrow key to select **FEATURES** menu, enter *Intel(R) Rapid Storage Technology*.

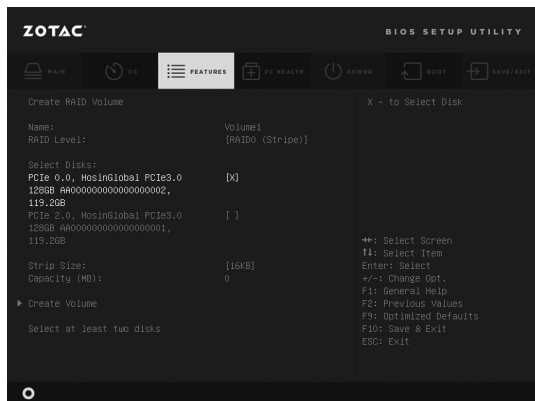


7. Select **Create RAID Volume** > **RAID Level** > **RAID0 (Stripe)** or **RAID1 (Mirror)**.



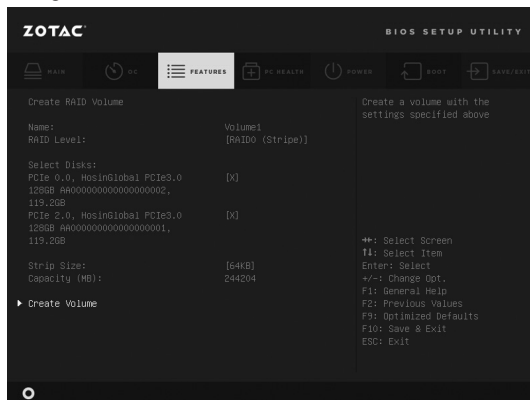


8. Select Disks, and enter the space bar.



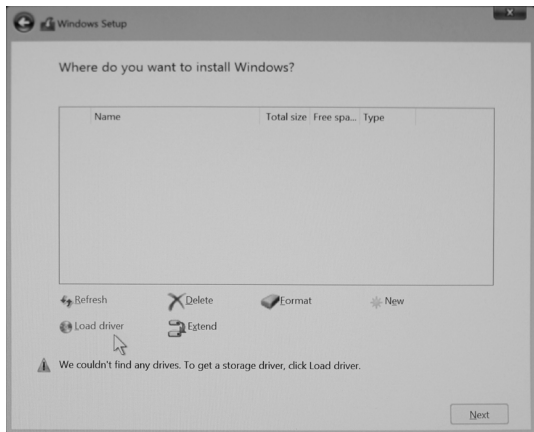


9. Enter *Create Volume*, you will see the status of RAID Volumes. Press F10 to save the configuration and exit.

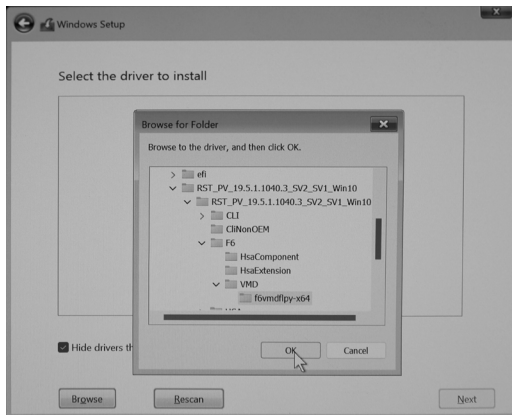
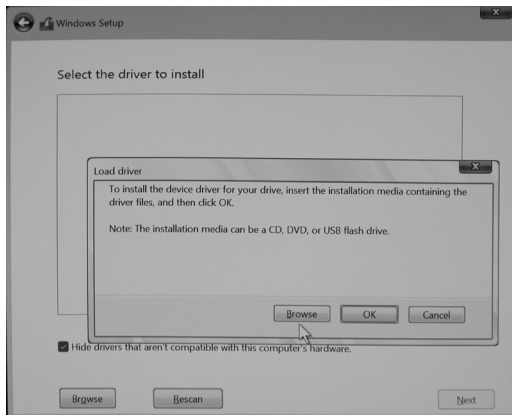




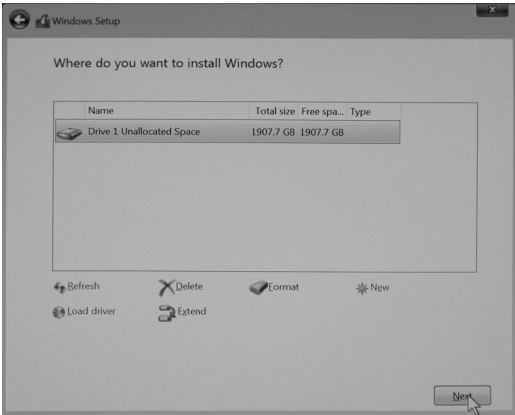
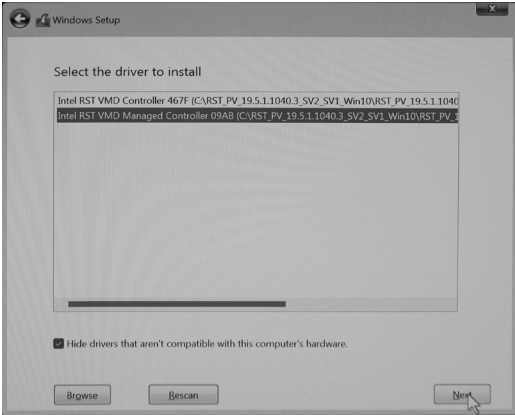
10. Install your Windows system, and select *Load driver* when the following screen appears.



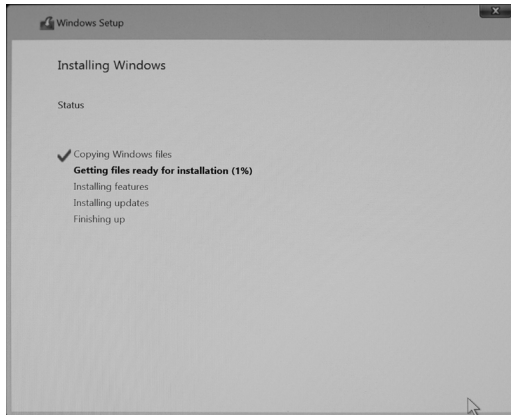
11. Click *Browse*, and select the right fold.



12. Select the driver to install.



13. When the Windows installation is finished, the SATA RAID is created.



FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference,
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

IC Warning

This device complies with Industry Canada's licence-exempt RSSs. Operation is subject to the following two conditions:

- (1) This device may not cause interference;
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

Cet appareil est conforme aux CNR exemptes de licence d'Industrie Canada.

Son fonctionnement est soumis aux deux conditions suivantes:

- (1) Ce dispositif ne peut causer d'interférences;
- (2) Ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

Ce matériel est complété par une exposition de rayonnements ISED pour un environnement naturel. Ce matériel doit être installé et se faire avec une distance minimale de 20cm entre les radiateurs et les autres Your body shop.

Button / Coin Cell Battery Safety Notice

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Use only CR2032 battery with a nominal voltage of 3V.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above 85°C or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.

WARNING

- **INGESTION HAZARD** : This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur if ingested.
- A swallowed button cell or coin battery can cause **Internal Chemical Burns** in as little as **2 hours**.
- **KEEP** new and used batteries **OUT OF REACH of CHILDREN**
- **Seek immediate medical attention** if a battery is suspected to be swallowed or inserted inside any part of the body.



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